

METHOD AND APPARATUS FOR PROVIDING OR ENHANCING
COPY PROTECTION BY ADDING SELECTED NEGATIVE-GOING AND
POSITIVE-GOING PULSES IN A VIDEO SIGNAL HBI

ABSTRACT OF THE DISCLOSURE

The horizontal blanking interval (HBI) of a normal video signal is modified to enhance the playability of the applied copy protected video signal while maintaining the copy protection effectiveness. As generally known, a copy protected video signal with positive-going pulses in a back porch region causes possible black level depression. The addition of a negative-going pulse and/or negative-going and positive-going pulse pair immediately prior to the H sync signal in the front porch region causes a reduction in such black level depression while resulting in enhanced playability. In other embodiments, an amplitude extending pulse is added to a latter portion of the H sync pulse or to a latter portion of a pseudo sync pulse, to increase the negative-going amplitude of the respective pulse. Various combinations of the added pulses also are possible.

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